



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Print

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name		
PO041169	MES002-VC	1	1	Net 60	M17-4-H1150-R2.000	17-4 SS Round Bar 2.000" : MATERIAL: 17-4 PH CONDITION H1150 receive ft				12	10/16/2018	12		S120116	Stock	10/18/2018	\$ 102.80 / ft	19		\$1,233.60	Metaux Solutions		
		2																					
		3																					
		4	1			M304S18GA	304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					128	10/16/2018	128		S120088	Stock	10/18/2018	\$ 7.15 / sf	19		\$915.20	Metaux Solutions
		5					M6061T6B4.500X4.500	6061-T6 Aluminiumbar 4.500" X 4.500" (CUT IN SECTION 6ft) : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft					12		12		S121736	Stock	10/25/2018	\$ 120.55 / ft	12		\$1,446.60
		6			M1018R1.750	M1018R1.750 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108										10/18/2018	\$ 16.35 / ft	19		\$196.20	Metaux Solutions		

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name		
		7			MT-H13-R2.500	AISI H13 Tool Steel Round Bar : MATERIAL: AISI H13 TOOL STEEL ROUND BAR AISI H13				6		6		S125028	Stock	11/6/2018	\$ 60.08 / ft	0		\$360.50	Metaux Solutions		
Total:											219			219								\$7,256.01	

Plex 11/6/2018 11:50 AM darl.Tollis.Andrew



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041169**

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO041169
PO Date: 9/27/18
Due Date: 10/11/18
Purchase Order
Revision:
Revision Date:

E-MAILED
SEP 27 2018

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments: bid 29194

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 AT		M17-4-H1150-R2.000	SR21741150	17-4 SS Round Bar 2.000" : MATERIAL: 17-4 PH CONDITION H1150 receive ft	Firmed	-	10/11/18	12 ft	0 ft	12 ft	\$102.80/ft	\$1,233.60
2 AT		M17-4-H900-R2.000		17-4 SS H900 Round Bar 2.000" : M174PH-H900R0.500 MATERIAL: 17-4 PH COND. H900 AS PER AMS 5643 NOTE: PLEASE SHIP MATERIAL TO METCOR INC. 560 BOULV. ARTHUR SAUVE SAINT-EUSTACHE, QC J7R-5A8 450-473-1884 receive ft	Firmed	-	10/11/18	36 ft	0 ft	36 ft	\$115.50/ft	\$4,158.00
3 AT		M17-4-B1.250X2.000	SF1142174	17-4 SS Bar 1.250 x 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	-	10/11/18	12 ft	0 ft	12 ft	\$93.15/ft	\$1,117.80
4 AT		M304S18GA	SS182B4	304/316 .050 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	-	10/11/18	128 sf	0 sf	128 sf	\$7.15/sf	\$915.20



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041169**

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5 ✓ AT		M6061T6B4.500X4.500	ASQ412	6061-T6 Aluminumbar 4.500" X 4.500" (CUT IN SECTION 6ft) : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	10/11/18	12 ft	0 ft	12 ft	\$120.55/ft	\$1,446.60
Line Item Note: 2 PCS OF 6 FT												
6 ✓ AT		M1018R1.750	CR134	M1018R1.750 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed	-	10/11/18	12 ft	0 ft	12 ft	\$16.35/ft	\$196.20
7 ✓ AT		MT-H13-R2.500	TR212H13	AISI H13 Tool Steel Round Bar : MATERIAL: AISI H13 TOOL STEEL ROUND BAR AISI H13	Firmed	-	10/11/18	6 ft	0 ft	6 ft	\$60.08333/ft	\$360.50
Grand Total:											\$9,427.90	

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 9/27/18 1:27 PM dart.lavoie.chantal

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel.: 450 641-3330

Bid 21/09/2018 29194

Sales Rep. : JEROME PRIMEAU
Reference : CHANTAL
Expiration Date : 20/12/2018

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To :

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Price	Total	Tx
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N				
SR38174	17-4PH ROU .375 DIA 1 X 12' R/L HT;	12	16.65	199.80	A
SR112174	17-4PH ROU 1.500 DIA COD. 1 X 12' R/L HT;	12	68.40	820.80	A
SR21741150	17-4PH 2 DIA. COND. H1150 1 X 12' R/L HT;	12	102.80	1 233.60	A
SR2174	17-4PH ROU 2" DIA COND. H900 2 X 12' R/L HT; 10/12 JOURS	24 366+	115.50	2 772.00	A
SF1142174	17-4PH FLAT 1.250 X 2.00 1 X 12' R/L HT;	12	93.15	1 117.80	A
SS182B4	304 SHEET .048 (18G) 4 X 4' X 8' HT;	128	7.15	915.20	A
SF122124	304 PLA .500 X 2.500 1 X 12' R/L HT;	12	18.20	218.40	A
SR123	303 ROU .500 DIA 2 X 12' R/L	24	3.50	84.00	A

*** Continued on Next Page ***

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 *Tel. : 450 641-3330*

Bid 21/09/2018 29194

Sales Rep. : JEROME PRIMEAU
Reference : CHANTAL
Expiration Date : 20/12/2018

Customer : 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To :

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Price	Total	Tx
SR343	HT; 308 ROU 1.750 DIA 3 X 12' R/L	36	7.86	282.96	A
AF16	HT; ALU FLA 1.000 X 6.000 6061-T6 3 X 12'	36	30.87	1 111.32	A
AF112212	HT; ALU FLA 1.500 X 2.500 6061-T6 1 X 12'	12	19.35	232.20	A
ASQ2	HT; ALU SQU 2.000 6061-T6 1 X 12'	12	20.65	247.80	A
ASQ412	HT; ALUM SQU 4-1/2" 6061-T6 1 X 12' <i>2 pcs left</i>	12	120.55	1 446.60	A
CR134	HT; CRS ROU 1.750 DIA 1018 1 X 12'	12	16.35	196.20	A
CR212	HT; CRS ROU 2.500 DIA 1018 1 X 12' SAME PRICE PER FOOT FOR 6'	12	22.45	269.40	A
MR13441H	HT; 4140 HTSR ROU 1.750 DIA 1 X 12' SAME PRICE PER FOOT FOR 6'	12	19.95	239.40	A
TR212H13	HT; H-13 TFA TO FIN 2.500 RD	103 <i>6ft</i>	3.50	360.50	A

60.68333

*** Continued on Next Page ***

Bid

21/09/2018

29194

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 *Tel. : 450 641-3330*

Sales Rep. : JEROME PRIMEAU
Reference : CHANTAL
Expiration Date : 20/12/2018

Customer : 6323336

Ship To :

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Price</i>	<i>Total</i>	<i>Tx</i>
HR5	1 X 72" HT; HR5 ROU 5.000 DIA 1018/1020 1 X 48" HT; 5/7 JOURS POUR LES RESTE	4	115.90	463.60	A

		<i>Subtotal</i>	12 211.58
A) Regist :		HST :	1 587.51
		<i>Total :</i>	13 799.09

Shipping Order

17/10/2018

METALUX SOLUTIONS INC
 2625 BOUL JACQUES CARTIER EST
 LONGUEUIL, QUEBEC
 J4N 1L7 Tel.: 450 641-3330

Order : 138483
 Reference : 41169
 Bid : 29194
 Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
 1270, ABERDEEN STREET
 HAWKESBURY, ONTARIO
 K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SR1121741150	17-4PH 2 DIA. COND. H1150 1 X 12.75' ✓ HT(430303) AT	12.75	12.75	0
SR2174	17-4PH ROU 2" DIA COND. H900 3 X 12' R/L ***** ✓ HT(9SJ0048-G10) AT	36	36	0
3F1142174	17-4PH FLAT 1.250 X 2.00 1 X 13' ✓ HT(42282026) AT	13	13	0
3S182B4	304 SHEET .048 (18G) 4 X 4' X 8' ***** HT(905E) AT	128	128	0
ASQ412	ALUM SQU 4-1/2" 6061-T6 2 X 6' ***** HT;	12	0	12
CR134	CRS ROU 1.750 DIA 1018 1 X 12' ✓ HT(C131474) AT	12	12	0
TR212H13	H-13 TFA TO FIN 2.500 RD ✓	103	103	0

*** Continued on Next Page ***

Shipping Order

17/10/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Order : 138483
Reference : 41169
Bid : 29194
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	1 X 72"			
	HT;88169091192-48-1			
	LIVRE			
	JP			

Wrong part #
Cert and mat'ls
8816081192



Page : 2

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____

Shipping Order

06/11/2018

METAL SOLUTIONS INC
625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel.: 450 641-3330

Order : 185699
Reference : 41169
Bid : 29194
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	1 X 72"			
	HT: 88160091192-48-1 <u>HT: 8816081192-48-1</u>			
	LIVRE			
	JP			
			12.75	0
			36	0
			13	0
			12.8	0
			12	0
			103	0

Page : 2

Shipping : _____
Package No : _____
Merchandise Received: _____

Ref. : _____

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
5-OCT-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T384522

45565-J
PART NUMBER/NUMÉRO DE PIÈCE
510451

SOLD TO: METAUX SOLUTIONS INC.	SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST	EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 17-4 CF BAR COND H1150
2 RD X 12' R/L
HEAT: 430303
ITEM: 510451
ASTM A564
Line Total: 136 LB

Specifications:

AMS 5643 V	ASTM A564 T630 13E1	ASME SA564 T630 13
COND H 1150	ASTMA 370 17	AISI 630
EN 10204 3.1	ASTM A484 18	AMS H 6875 B
ASTM E10 15A	ASTM E8 16A	AMS 2303 F
ASTM E340 15	ASTM E381-01 12	AMS 2315 G
EN 10204 3.1		

CHEMICAL ANALYSIS

C	MN	P	S	SI	CR	NI	MO
0.032	0.41	0.025	0.001	0.38	15.14	4.68	0.17
CU	N	CB	TA	CBTA			
3.40	0.045	0.278	0.002	0.28			

RCPT: R541757

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

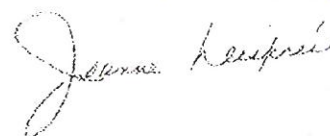
DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	BHN
COND H1150	131200.0	143700.0	19.1	63.8	300

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
5-OCT-2018

Invoice Number
T384522

45565-J
PART NUMBER/NUMÉRO DE PIÈCE
510451

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	EXPÉDIÉ À:	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 17-4 CF BAR COND H1150 ASTM A564
2 RD X 12' R/L Line Total: 136 LB
HEAT: 430303 ITEM: 510451

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

MACRO: OK

MICRO:

MICRO CONTAINS NO MORE THAN 5% FERRITE

AMS NO :2301

SEVERITY :0.18

FREQUENCY:0.28

COMMENTS

melted in italy

mfg in usa

chemical testing to one or more of the listed astm methods:

e1019-11, e1086-14

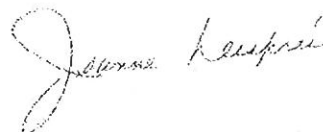
material conforms to listed specifications. dfars compliant.

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5843 OR ASTM A564

PART NUMBER: M17-4- HHHH- R X XXX WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
X XXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
1.000" DIAMETER BAR MINUTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

RELEASED
2017-10-31
E(m17-728)

APPROVED

C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.09.14
B	REF OR MAT DWG. S17400/TYPE 630 ADDED TO PURCHASE MATERIAL (ZN D6-1). ADD A564 SPEC (CB-1).	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	RA		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-R			
TITLE 17-4 SS ROUND BAR			
SHEET 1 OF 1			
SCALE NTS			
DATE 17.09.14			
COPYRIGHT © 2004 BY DART AEROSPACE LTD			
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED IN THE ORDER.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H1150-R2.000

PO / BATCH NO.: P0041169/5120116

DATE: 10/10/22

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 2.000"

QUANTITY RECEIVED: 12.75ft

THICKNESS RECEIVED: 2.000"

QUANTITY INSPECTED: 12.75ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	AS2M AS64
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	MT. 420303
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>At</u>	SIGNED OFF BY: _____
DATE: <u>10/10/22</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



GLORIA MATERIAL TECHNOLOGY CORP. INSPECTION CERTIFICATE



Messrs: Bidalloy PAC Metals Ltd.
Order No.: 2018000733-5
File No.: 2018002676-A
Grade: 17-4 PH
Size: 2"
Heat-Lot No.: QSJ0048-G10
Condition: HR-Solution Annealed-Ground

P.O.No.: P006705
Date: 06/18/2018
Weight: 1247KG 2749.16LB
P'cs: 20

Chemical Composition (wt%)							
C	Si	Mn	P	S	Ni	Cr	
Min.					3.00	15.00	
Max.	1.00	1.00	0.040	0.030	5.00	17.50	
Result	0.37	0.58	0.019	0.001	4.73	15.31	
Mo	Cu	Nb+Ta	Nb				
Min.	3.00	0.15	5C				
Max.	5.00	0.45	0.45				
Result	3.34	0.25	0.24				

Mechanical Properties Spec.

	Hardness	Grain Size	Delta-Ferrite
		ASTM E112	AMS 2315
Spec. Min.	1/2R	T	L
Spec. Max.	303HRC		5%
Result	301HRC	6	0.3%

3100 Hardness (Ave)

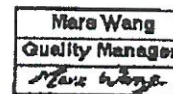
	1/2R L
Spec. Min.	40HRC
Spec. Max.	47HRC
Result	43HRC

Macro Etching

	MACRO ETCH	MACRO ETCH
	ASTM E340	ASTM E340
Spec.	0	T
Result	OK	OK



New Taining
Material Testing Laboratory
Nondestructive Testing



Page 1 of 3

Our quality and environment management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OHS, and NADCAP. We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirements of the above material specification. Inspection Certificates comply with EN 10204 3.1.

TEL: 886-6-6520031 / FAX: 886-6-6230877
http://www.gmtc.com.tw



GLORIA MATERIAL TECHNOLOGY CORP. INSPECTION CERTIFICATE



Messrs: Fidelity PAC Metals Ltd.
Order No.: 2018000733-5
File No.: 2018002678-A
Grade: 17-4 PHN
Size: 2"
Heat-Lot No.: 9SJ0048-G10
Condition: HR-Solution Annealed-Ground

P.O.No.: P008705
Date: 06/19/2018
Weight: 1247KG 2749.16LB
P'cs: 20

Tensile Test				
	Elongation(A)	Tensile Strength(Rm)	Yield Strength(0.2% Rp)	Reduction of Area(Z)
	1/2" L (Ave)	1/2" L (Ave)	1/2" L (Ave)	1/2" L (Ave)
Unit	%	KSI	KSI	%
Min.	10	190	170	40
Max.				
Result	14	204	180	48

Non-Metallic Inclusions: AMS 2303
Severity Frequency

Sont
Max.
Result 0 0

REDUCTION RATIO: Min 4.0:1

Specification:

1. ASTM A564 A564M-13.
2. ASME SA53 (2013).
3. AMS 5643
4. ASTM A434 A484M-16.
5. AMS 2303
6. AMS 2315
7. EN 10201 3.1.
8. FIDELITY 7-4PH ROUND BAR REVISION 03/15/13.

Remark:

1. MANUFACTURING PROCESS: EAF+LHF+VOD, FORGED OR HOT ROLLED.
2. SOLUTION TREATMENT: 1900 +/- 25 DEGREE F FOR 30 MIN/INCH (MINIMUM OF 1/2 HOUR), FAST COOLING TO BELOW 90 DEGREE F.
3. MECHANICAL PROPERTIES TESTED AS PER H900 CONDITION.
4. MATERIAL IS FREE FROM KNOWN CONTACT WITH MERCURY AND RADIUM.



Accredited
Nadcap
Heat Treating
Material Testing Laboratory
Nondestructive Testing

Mars Wang
Quality Manager
Mars Wang

Our quality and development management systems have been certified by AS9100, ISO9001 QMS, ISO14001 EMS, OHSAS18001 OHS, and NADCAP. We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirements of the above material specification. Inspection Certificate comply with EN 10204 3.1.



台灣台南市新營區新中路35號/NO.35, HSIN CHUNG RD., HSIN YING, TAINAN, TAIWAN
TEL: 886-6-6520031 / FAX: 886-6-6230877
<http://www.gmtc.com.tw>



GLORIA MATERIAL TECHNOLOGY CORP.
INSPECTION CERTIFICATE



Messrs: Fidelity PAC Metals Ltd.

Order No.: GC18000733-5

File No.: GC18002676-A

Grade: 17-4 PHN

Size: 2"

Heat-Lot No.: 9SJ0048-G10

Condition: HR-Solution Annealed-Ground

P.O.No.: P006705

Date: 06/19/2018

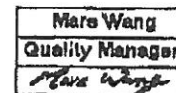
Weight: 1247KG 2749.16LB

P'cs: 20

5. MATERIAL IS FREE FROM WELDS OR WELDING REPAIRS.
6. MATERIAL IS FREE FROM RESIDUAL RADIOACTIVITY.
7. NO PRODUCTS THAT CONTAIN OR WERE MADE WITH ODC'S.
8. ULTRASONIC TEST IS ACCEPTABLE PER ASTM A388.
9. THE MATERIAL IS THE SAME AS AISI 630.
10. COUNTRY OF ORIGIN: TAIWAN.



Non Destructive
Material Testing Laboratory
Nondestructive Testing



Page 3 of 3

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台灣台南市新營區新中街35號 / NO.35, HSIN CHUNG RD., HSIN YING, TAINAN, TAIWAN

TEL: 886-6-6520031 / FAX: 886-6-6230877

<http://www.gmtc.com.tw>

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
331080	1

CLIENT / customer 780

METAL SOLUTIONS

2825 BOUL. JACQUES-CARTIER EST

LONGUEUIL

QC J4B 6G6

LIVRÉ À / shipped to:

METAL SOLUTIONS

2825 BOUL. JACQUES-CARTIER EST

LONGUEUIL

QC J4B 6G6

COMMANDE DU CLIENT customer po	CLASSIFICATION PIÈCE part classification	MATÉRIEL material	MAÎTRE D'OEUVRE prime contractor	PROGRAM
45587	N/A	17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

AGE HARDEN

CONDITION H 900*

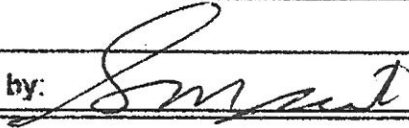
XIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	3 (907)	46 - 47 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
3	400	PIECES (3) PIECES 1 NIL

16/10/18

COMMENTAIRES / comments

APPROUVÉ par / Approved by:



DATE: 2018-10-17

APPROUVÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5643 OR ASTM A564
PART NUMBER: M17-4-XXXXX WHERE: XXXX = DIAMETER (IN INCHES)

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
1.000" DIAMETER BAR MINUTS = 150 KSI, MINUTS = 100 KSI
2.000" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H1025 CONDITION
0.750" DIAMETER BAR A CONDITION

RELEASED
2017-10-31
E(m17-728)

APPROVED

C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.09.14
B	H/FORMAT DWG. S17400/TYP 630 ADDED TO PURCHASE MATERIAL (ZN D8-T), ADD A564 SPEC (C8-1), REF PAR 08-020A	VS	10.05.20
A	NEW ISSUE	CP	05.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	RA		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-R			
TITLE 17-4 SS ROUND BAR			
SHEET 1 OF 1			
SCALE NTS			
DATE 17.09.14			
COPYRIGHT © 2016 BY DART AEROSPACE LTD.			
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED IN THE DRAWING. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H900-R2.000

PO / BATCH NO.: P0041169/S120117

DATE: 18/10/22

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 2.000"

QUANTITY RECEIVED: 36ft

THICKNESS RECEIVED: 2.000"

QUANTITY INSPECTED: 36ft

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	Y <u>(N)</u>	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	Y <u>(N)</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>(N)</u>	<u>ASTM A564</u>
CORRECT THICKNESS	Y <u>(N)</u>	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	Y <u>(N)</u>	<u>MT: 95J004B-G10</u>
CORRECT MATERIAL IDENTIFICATION	Y <u>(N)</u>	
CORRECT M# ON THE MATERIAL	Y <u>(N)</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/10/22</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
5-OCT-2018

45565-J
PART NUMBER/NUMÉRO DE PIÈCE
511751

Invoice Number
T384523

SOLD TO: METAUX SOLUTIONS INC.	SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST	EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 17-4 HRAP BAR SOL ANN ASTM A564
1-1/4 X 2 FLAT X 12' R/L
HEAT: 42282026 ITEM: 511751

Line Total: 110 LB

Specifications:
AMS 5643 U
ASTM A484 16
ASTM A564 T630 13
ASME SA564 T630

CHEMICAL ANALYSIS

C	SI	MN	P	S	CR	NI	MO
0.026	0.3900	0.68	0.019	0.002	15.29	4.43	0.16
CO	CU	N	TI	NB	CBTA		
0.0360	3.1100	0.019	0.001	0.23	0.23		

RCPT: R483569

COUNTRY OF ORIGIN : GERMANY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
COND A					304
DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
DEV: H900 L	184.0	201.0	12.1	57.1	409

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date
5-OCT-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number
T384523

45565-J

PART NUMBER/NUMÉRO DE PIÈCE

511751

SOLD TO: METAUX SOLUTIONS INC.

SHIP TO:

METAUX SOLUTIONS (RIVE-SUD)

VENDU À:

EXPÉDIÉ À:

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 17-4 HRAP BAR SOL ANN ASTM A564
1-1/4 X 2 FLAT X 12' R/L
HEAT: 42282026

ITEM: 511751

Line Total: 110 LB

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

THERMAL TREATMENT: OK

SOL ANN 1900 DEG F FOR 6 HRS

MACRO: OK

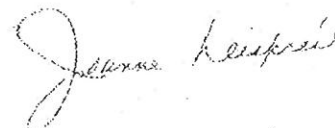
MICRO1: OK

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

2

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-B1-250x2.00

PO / BATCH NO.: P0041164/5/20118

DATE: 18/10/22

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.250"

QUANTITY RECEIVED: 13 Dr

THICKNESS RECEIVED: 1.250"

QUANTITY INSPECTED: 13 Dr

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A564
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MT: 42282026
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/10/22</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



North American Stainless Canada Inc.
740 Imperial Road North
Georgetown, ON N1K1Z3
Canada

Certificate: 434778 4 Mail To: _____

Customer: 007060 008

METALLURGICAL

TEST REPORT

Ship To: _____

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

35242

Date: 8/06/2018 Page: 1

Steel: 304/304L

Finish: 2B

Corrosion: ASTM A262/15, 180end-OK

Your Order: D97157

NAS Order: DS 0014902 07

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED. UNS 30400/30403
ASTM A240/17, A480/16, A666/15, ASME SA240/17, SA480/17, SA666/17
CHECK ONLY ON FOLLOWING ASTM: A276/17, A479/17, A484/16, A312/16
AMS 5511N/5513J UNS 312/13, SA479/13
NACE MR0175/ISO 15156-3:2009 A, MR0103/07/Q35760D-A X MAG PERM
MIL-5059D AMS (X CHN MEAS): MIL-4043B
MIL. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; ROHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
Quoted & Manufactured in the USA; Mat'l is DPA's Compliant

Product Id	Coil #	Shld #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
05905E D	05905E D		.0480	48.0000	10.370	COIL		3	1

CHEMICAL ANALYSIS

CH	C %	CR %	CU %	MM %	ND %	N %	NI %	P %	S %
905E	0.0178	18.0445	.3605	1.7675	.2855	.0689	8.0220	.0330	.0010
SI %									

ANAL, ISO/IEC 17025, Certificate# 12323
Chemical Analysis per ASTM A751/14a

MECHANICAL PROPERTIES

Product Id#	Coil #	1 d	6 d	UTS	20C	.2% YS	20C ELONG	% Hard	Tail
05905E D	05905E D	P	T	97.13	49.31	55.92	87.00	88.50	Hard

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

8/06/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEXED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH IDENTIFIER
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

PART NUMBER:

M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122

REV.	DESCRIPTION	DATE
D	ADDED GAUGES 0-7	15.01.06
C	DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 2B (ZN B5)	MB 12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A	CP 09.06.01
A	NEW ISSUE	DS 01.09.24
DESIGN	DS	BY
DRAWN	AJS	DATE
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	15.01.06	

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.

M304S

TITLE

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

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SHEET 1 OF 1

REV. D

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REV. D

DATE

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15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

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SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

NTS

SHEET 1 OF 1

REV. D

DATE

15.01.06

304/316 SS SHEET

SCALE

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3045186A
 DATE: 18/10/22

PO / BATCH NO.: P0041164/512088

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 144sf
 QUANTITY INSPECTED: 144sf
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.040"
 THICKNESS RECEIVED: 0.040"
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>ASTM A240</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>MT: 905E</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/10/22</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Union Drawn Steel II LP

1350 Burlington Street East, P.O. Box 98
Hamilton, Ontario, Canada L8N 3A2
Phone: (905) 547-4480; Fax: (905) 544-3852
1-800-263-9966

CERTIFICATE OF ANALYSIS CERTIFICAT D'ANALYSE

SV
OE
LN
DD
U
T
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SE
HX
IP
PE
D
TI
OE

A

DATE 04/02/18

CUSTOMER ORDER NO. MON-57568
NO. DE LA COMMANDE DU CLIENT

MILL ORDER NO. 266479-00

PRODUCT DESCRIPTION
PRODUIT DESCRIPTION

BILL OF LADING
BON DE CONNAISSANCE

L 27 FA20302116 YOUR ITEM # :

1-3/4 RD 1018 20 FT 00

COLD FINISHED STEEL BARS CARBON
COLD DRAWN
STANDARD AISI TOLERANCES
C .15/.20 MN .60/.90 P .040MAX S .050MAX
TRANSPORT BY TRUCK - PROTECT WITH TARP
ASTM A108

COUNTRY OF ORIGIN - CANADA
HOT ROLL SOURCE : ARCELORMITTAL
NAFTA CERTIFIED YES: X NO:

LADLE ANALYSIS/ANALYSE DE LA COUILLER A COULER

HEAT NUMBER C131474	C.	.190	MN.	.760	P.	.004	S.	.023
	SI.	.220	CU.	.070	NI.	.050	CR.	.040
	CB.		V.	.002	MO.	.015	PB.	
	B.		AL.	.024	SN.	.004		

MECHANICAL PROPERTIES/PROPRIETES MECANQUES
HEAT NUMBER C131474

YIELD STRENGTH
LIMIT D'ELASTICITE

P.S.I. @ .2% OFFSET

TENSILE STRENGTH
RESISTANCE A LA TRACTION

P.S.I.

ELONGATION (2 INCHES)
ALLONGEMENT

%

REDUCTION OF AREA
STRICITION

%

HARDNESS
DURETE

☐ MAG
TEST

☐ ROTO
TEST

☐ ULTRA
SONIC TEST

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HAS BEEN TESTED IN ACCORDANCE WITH SPECIFICATION, AND THAT THE RESULTS ARE CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY.

PAR LES PRESENTES NOUS CERTIFIONS QUE LA MATIERE DECRIE A ETE TESTEE CONFORMEMENT AUX SPECIFICATIONS ET QUE LES RESULTATS SONT CORRECTS, COMME INDIQUE DANS LES REGISTRES DE LA COMPAGNIE.

PER/PAR

NO WELDING OR WELD REPAIR PERFORMED ON THIS MATERIAL
THIS MATERIAL WAS NOT EXPOSED TO MERCURY DURING
PROCESSING OR WHILE IN OUR POSSESSION.

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-R10.DDD WHERE D DDD = DIAMETER IN INCHES
DIA.
EG. 7/8" ROUND BAR = M1018-R0.875
TOLERANCES: PER ASTM A108 AS FOLLOWS:
SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24

B	REFORMAT ADD ASTM A108 ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE	DS	01.06.12
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	CP		
CHECKED	<i>CP</i>		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	12.09.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M1018-R			
REV. B			
SHEET 1 OF 1			
TITLE			
1018-1025 ROUND BAR			
SCALE			
NTS			
COPYRIGHT © 2011 BY DART AEROSPACE LTD.			
ALL RIGHTS RESERVED. NO PART OF THIS PUBLICATION MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R1.750

PO / BATCH NO.: P0041169/S1 2019

DATE: 18/10/22

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.750"

QUANTITY RECEIVED: 12ft

THICKNESS RECEIVED: 1.750"

QUANTITY INSPECTED: 12ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A108
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT: C131474
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/10/22</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

18 oct. 2018

DESCRIPTION OF MATERIAL

Heat No	Lot	Grade and Size of Material
8816081192	48 1	H13 TFA TO FIN 2.500 RD

MECHANICAL PROPERTIES

Quantity	Yield PSI	Tensile PSI	% Elong In.	% Red Area	Hardness	Impact
2119 LBS	0	0	0	0	BHN230	

CHEMICAL PROPERTIES

C	MN	P	S	SI	NI	CR	V	W	MO	CU	CO	AL
0.380	0.360	0.026	0.008	1.100		5.100	0.940		1.280			
N	PB	SN										

NOTES

ASTMA681-08
MELTING PROCESS: EAF+LF+ESR
ULTRASONIC TEST OK ACCORDING TO SEP1921, (DEC.84) E/e
MATERIAL FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED

Country of Origin: China

ITEM 7: 1 X 72"

COMMANDE : 138483

REF : 41169

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



1 2 3 4 5 6 7

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.20	SAC	WM

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI H13 TOOL STEEL ROUND BAR
SPECIFICATION: AISI H13
PART NUMBER: MT-H13-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-H13-R0.625

DART AEROSPACE Hawthorn, Victoria 3043	
PART NAME: AISI H13 TOOL STEEL ROUND BAR	
ENGINE NO.	REV. A
DESIGN BY: SAC 20/09/2017	XXX ± 20% FRACTIONS ± 1/8
DRAWN BY: SAC 09/20/2017	XXX ± 1% SURFACES ± 1/32
CHECKED: VM 09/21/2017	1. DIMENSIONS ARE IN INCHES
MTG. APPR.: DP 09/21/2017	2. INTERPRET DIM AND TOL PER
APPROVED: [Signature] VM 10/05/2017	3. ASME Y14.5M 2009
DATE: 20/09/2017	4. AFTER PLATING
COPYRIGHT © 2017 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-H13-R2-500
 DATE: 18/11/06

PO / BATCH NO.: P0041169/S125028

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 64
 QUANTITY INSPECTED: 64
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2500"
 THICKNESS RECEIVED: 2500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	Y	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	<u>H-13</u>
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	Y	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	<u>MT-8816081192 48 1</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DATE: <u>18/11/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Shipping Order

23/10/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel.: 450 641-3330

Order : 138483
Reference : 41169
Bid : 29194
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
----------	-------------	-----	--------------	---------

***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR
LE PACKING SLIP INSCRIRE LES HEAT N

***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR
LE PACKING SLIP INSCRIRE LES HEAT N

***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR
LE PACKING SLIP INSCRIRE LES HEAT N

ASQ412

ALUM SQU 4-1/2" 6061-T6

2 X 6' *****

HT: 201818065

12

ship journey collect
JP

Shipping : _____

Package No : _____

Merchandise Received: _____

Ref. : _____



Service Center Metals

5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO		OUR ORDER NUMBER 962315		ITEM 9	
SHIP TO		DATE OF SHIPMENT 9/28/2018		CERTIFICATION ASTM-B221-14 Stencil Cont	
MANIFEST NUMBER 380353		DIE NUMBER MSQ0722		SPECIFICATION SAE-AVIS-QQA-200/8A Stabilized	
CUSTOMER PO 5400417518		ALLOY/TEMPER 6061-T6511		RoHS 2011/65/EU Compliant	
CUSTOMER PART NUMBER ALSQ00145		SALESPERSON D. Schroeder (Canada)			
Quantity Certified 2,304 lbs		DESCRIPTION MSQ 4.500 + .034/-0			

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

SCM is ISO 9001-2015 certified This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
			min	min	min
			max	max	max
1	201818065	9/23/18	52.80	48.30	16.10
			52.80	48.30	16.10

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Each	Total	Others	Melt Source:
001M180917A	201818065	6061	0.73	0.37	0.31	0.11	0.88	0.10	0.07	0.03	97.41	0.05	0.15		United States of America
09201801	201818065	6061	0.71	0.34	0.30	0.10	0.87	0.08	0.06	0.03	97.51	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Print Date: 9/28/2018

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 3/14/2018

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12.000

RELEASED
 2009-05-03
MP

B	REMOVE QQ-A-250/1 OPTION REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	<i>MP</i>		
CHECKED	<i>ALS</i>		
MFG. APPR.	<i>MP</i>		
APPROVED	<i>MP</i>		
DE APPR.	<i>MP</i>		
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. M6061T6B	REV. B
TITLE 6061-T6 BAR	SHEET 1 OF 1
SCALE NTS	
COPYRIGHT © 2001 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B4.500x4.500

PO / BATCH NO.: PO 041169 / S121736

DATE: 18/10/26

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 4.500"

QUANTITY RECEIVED: 12ft

THICKNESS RECEIVED: 4.500"

QUANTITY INSPECTED: 12ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>AMS-QQ-A-200/B</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>HT: 201818065</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u>	SIGNED OFF BY: _____
DATE: <u>18/10/26</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in